94.09.01 94JP-208604 Addnl. Data:

A UV cure type security ink compsn. (P) contg. acrylate type UV cure resin compsn. (A) and at least one kind of dithiol of formula (I) or formula (II)

¹-A⁸ = independently hydrogen atom, halogen atom, nitro gp. cyano opt. substd. alkyl gp. opt. substd. aryl gp. opt. substd. alkoxy gp. opt. alkylaminocarbonyl gp. alkoxycarbonyl gp. aryloxycarbonyl gp. or gp. thiocyanate gp. cyanate gp. acyl gp. carbamoyl gp.

A(4-F1A, 8-C4, 11-C2B, 12-D, 12-W7D) E(5-L, 5-M, 5-N) G(2-A4A) *JP 07126561-A MITK 93.09.10

M = divalent metal atom, trivalent or tetravalent substd. metal atom, or opt. substd. alkylamino gp. or opt. substd. arylamino gp. Adjacent two substd. aryloxy gp. opt. substd. alkylthio gp. opt. substd. arylthio gp. R¹-R⁴ = independently opt. substd. alkyl gp. opt. substd. aryl gp. substits. may have bonded each other through a linking gp. oxymetal

 $B^{1}-B^{4}$ = independently hydrogen atom, cyano gp. acyl gp. carbamoyl M = divalent metal atom, trivalent or tetravalent substd. metal atom, gp. alkylaminocarbonyl gp. alkoxycarbonyl gp. aryloxycarbonyl gp. opt. substd. alkyl gp. or opt. substd. aryl gp. Adjacent two substits. may have bonded each other through a linking gp. or oxymetal

JP 07126561-A+

is 1/0.01-50/0.0001-10.0). (CM) (8pp180DwgNo.0/0)

(P) is suitably applied for printing various information cards such as credit cards, prepaid cards, bank notes, valuable securities which can be detected with 700-1,800nm near IR and mfg. near IR ray cut filters and heat ray absorption filters.

ADVANTAGE

(P) has excellent storage stability. Recordings printed with (P) can

ype monomer(s) oligomer(s), or their mixt. which cure by irradiation which cure by irradiation of 190-480nm UV light. (2) (A) is acrylate (1) (A) is acrylate type monomer(s), oligomer(s), or their mixts. of 190-480nm light and contain photoinitiator (C) and opt. UV bsorber (D) or singlet oxygen quencher (E) (C) may be selected from the gp. of conventional photoinitiators. type UV absorbers, Examples of (E) organic Ni type quenchers such as Seesorb 612NH and Irgastab 2002. A suitable (A)/(B)/(C) wt. ratio Examples of (D) are benzotriazol type UV absorbers, benzophenone type UV absorbers, cyanoacrylate type UV absorbers, and salicylate

be correctly read with near infrared ray and resistant to light. PREFERRED COMPOSITION EMBODIMENT